



## Gulf of Mexico Harmful Algal Bloom Bulletin

21 September 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: September 18, 2006

### Conditions Report

A harmful algal bloom has been identified from Pinellas County to Collier County. Possible impacts for Pinellas, Manatee, Sarasota, Charlotte, and Lee Counties: low this morning, patchy and high this afternoon, low tomorrow morning, patchy and high tomorrow afternoon through Saturday, low Sunday morning, patchy and high Sunday afternoon through Monday. Possible impacts for northern Collier County: very low this morning, patchy and moderate this afternoon, very low tomorrow morning, patchy and moderate tomorrow afternoon through Saturday, very low Sunday morning, patchy and moderate Sunday afternoon through Monday. Possible impacts for southern Collier County: none this morning, very low this afternoon, none tomorrow morning, very low tomorrow afternoon through Saturday, none Sunday morning, very low Sunday afternoon through Monday.

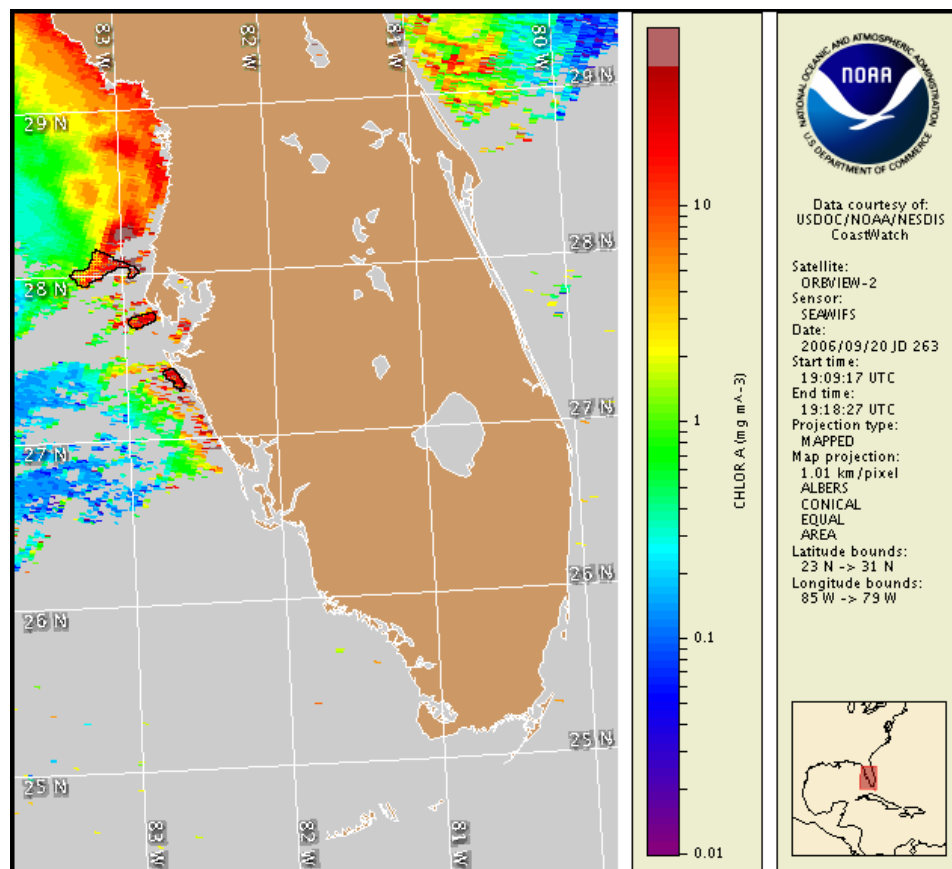
### Analysis

The harmful algal bloom persists off the coast of southwest Florida. In Charlotte County, a sample with a high concentration of *Karenia brevis* was taken in Pine Island on 9/18 (FWRI), and another high concentration sample was taken at Englewood Beach on 9/19. There were reports of dead fish at Vanderbilt Beach and Naples Pier on 9/19 (Collier County PCD). Recent satellite imagery has been mostly obscured by clouds. An image from 9/20 showed chlorophyll concentration  $>20 \mu\text{g/L}$  at  $27.73^\circ$ ,  $-82.8$ , west of St. Pete Beach. A transport model indicates negligible alongshore transport of the bloom from 9/17 to 9/21. Negligible alongshore transport of the bloom is expected over the next few days due to highly variable winds.

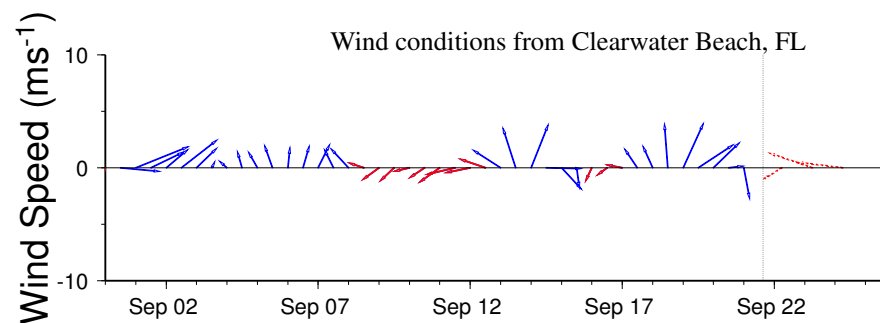
Bronder, Keller

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1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.

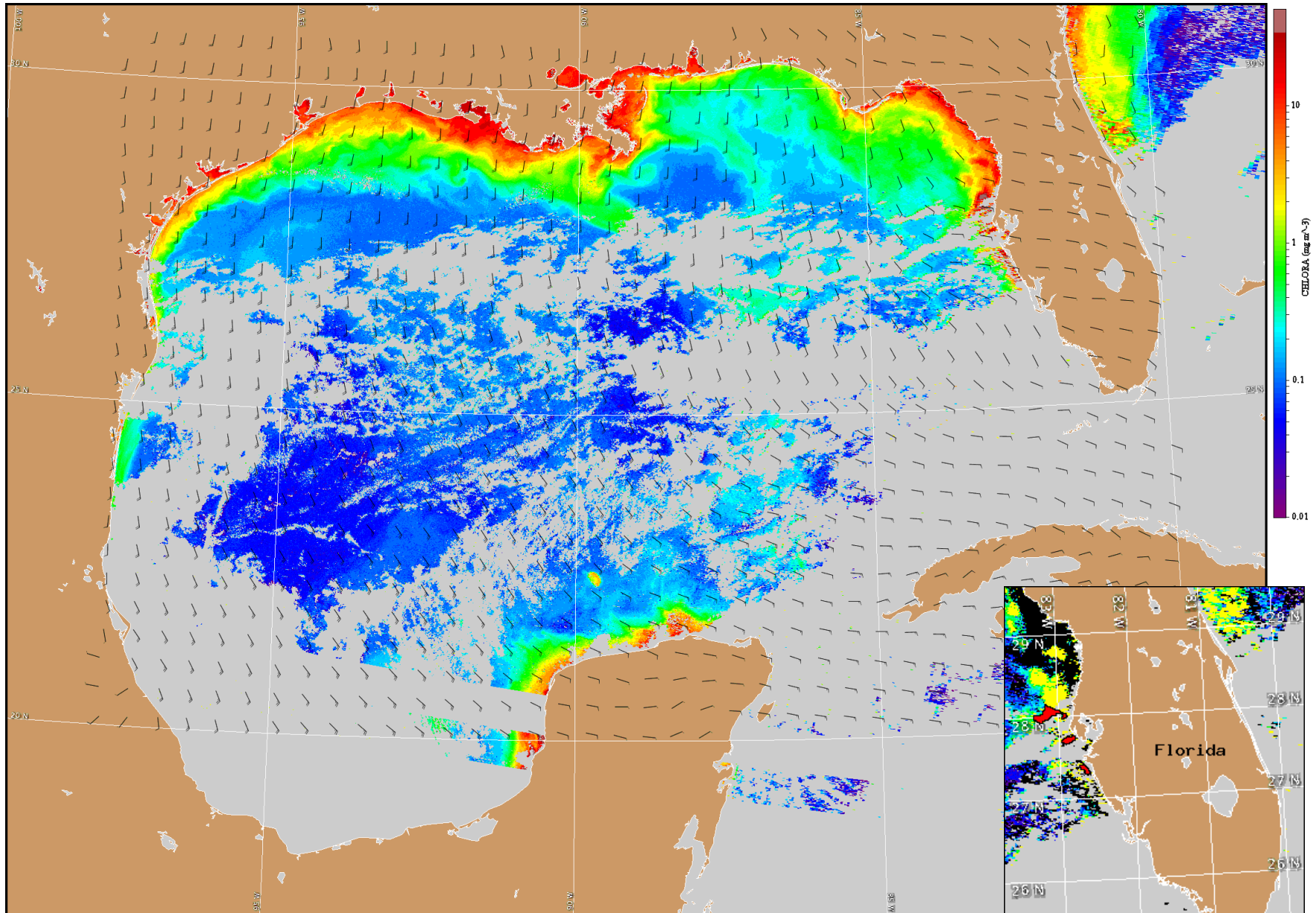


Satellite chlorophyll image with possible HAB areas shown by red polygon(s).



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Winds will be north (10 kts, 5 m/s) today, then northwest in the afternoon; southeast (10 kts) tomorrow, then west in the afternoon; south (10 kts) on Saturday, then west in the afternoon; southeast (10 kts) Sunday, then west in the afternoon; west (10 kts) on Monday.



Satellite chlorophyll image and forecast winds for September 22, 2006 12Z.

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

